AMENDMENTS TO THE CLAIMS

WHAT IS CLAIMED IS:

- 1. (Currently amended) A method of identifying a candidate beta catenin pathway modulating agent, said method comprising the steps of:
 - (a) providing an a first assay system capable of detecting Protein Kinase C (PRKC) expression comprising a PRKC polypeptide or nucleic acid;
 - (b) contacting the assay system of step (a) with a test agent under conditions whereby, but for the presence of the test agent, the system provides a reference activity; and
 - (c) detecting a test agent biased activity of the assay system, wherein a difference between the test agent biased activity and the reference activity identifies the test agent as a candidate beta catenin pathway modulating agent measuring the expression of PRKC in the presence or absence of the test agent; (d) identifying a candidate beta catenin modulating agent by detecting a change in the expression or activity of PRKC in the presence of the test agent compared with no test agent;
 - (e) providing a second assay system capable of detecting a change in the beta catenin pathway comprising cultured cells expressing PRKC;
 - (f) contacting the assay system of step (e) with the candidate test agent of step (b);
 - (g) measuring the beta catenin pathway in the presence or absence of the test agent; and
 - (h) confirming that the test agent of step (b) is a candidate beta catenin modulating agent by detecting a change in the beta catenin pathway in the presence or absence of the test agent.
- 2. (Currently amended) The method of Claim 1, wherein the <u>first</u> assay system comprises cultured cells that express the PRKC polypeptide.

- 3. (Currently amended) The method of Claim 2, wherein the cultured cells additionally have defective beta catenin function.
- 4. (Withdrawn) The method of Claim 1 wherein the assay system includes a screening assay comprising a PRKC polypeptide, and the candidate test agent is a small molecule modulator.
- 5. (Withdrawn) The method of Claim 4 wherein the <u>screening</u> assay is a kinase assay.
- 6. (Currently amended) The method of Claim 1, wherein the <u>second</u> assay system is selected from the group consisting of an apoptosis assay system, a cell proliferation assay system, an angiogenesis assay system, and a hypoxic induction assay system.
- 7. (Withdrawn) The method of Claim 1 wherein the assay system includes a binding assay comprising a PRKC polypeptide and the candidate test agent is an antibody.
- 8. (Currently amended) The method of Claim 1, wherein the <u>first</u> assay system includes an expression assay comprising a PRKC nucleic acid and the candidate test agent is a nucleic acid modulator.
- 9. (Currently amended) The method of claim 8, wherein the nucleic acid modulator is an antisense oligomer.
- 10. (Currently amended) The method of Claim 8, wherein the nucleic acid modulator is a phosphorodiamidate morpholino oligomer (PMO).
- 11. The method of Claim 1, additionally comprising:
 - (d) administering the candidate beta catenin pathway modulating agent identified in (c) to a model system comprising cells wherein the cultured cells in the second assay system additionally have defective in beta catenin function and, detecting a phenotypic change in the model system that indicates that the beta catenin function is restored.

- 12. (Canceled)
- 13. (Withdrawn) A method for modulating a beta catenin pathway of a cell comprising contacting a cell defective in beta catenin function with a candidate modulator that specifically binds to a PRKC polypeptide, whereby beta catenin function is restored.
- 14. (Withdrawn) The method of claim 13 wherein the candidate modulator is administered to a vertebrate animal predetermined to have a disease or disorder resulting from a defect in beta catenin function.
- 15. (Withdrawn) The method of Claim 13 wherein the candidate modulator is selected from the 25 group consisting of an antibody and a small molecule.
- 16. (Canceled)
- 17. (Canceled)
- 18. (Canceled)
- 19. (Canceled)
- 20. (Withdrawn) A method of modulating beta catenin pathway in a mammalian cell comprising contacting the cell with an agent that specifically binds a PRKC polypeptide or nucleic acid.
- 21. (Withdrawn) The method of Claim 20 wherein the agent is administered to a mammalian animal predetermined to have a pathology associated with the beta catenin pathway.
- 22. (Withdrawn) The method of Claim 20 wherein the agent is a small molecule modulator, a nucleic acid modulator, or an antibody.

- 23. (Withdrawn) A method for diagnosing a disease in a patient comprising: obtaining a biological sample from the patient; contacting the sample with a probe for PRKC expression; comparing results from step (b) with a control; determining whether step (c) indicates a likelihood of disease.
- 24. (Withdrawn) The method of claim 23 wherein said disease is cancer.
- 25. (Withdrawn) The method according to claim 24, wherein said cancer is a cancer as shown in Table 1 as having >25% expression level.